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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	A P	[A P (/-)	
	Application No.	Applicant(s)	
0577 4 47 0	10/708,547	BEENAU ET AL.	
Office Action Summary	Examiner	Art Unit	
	LUNA CHAMPAGNE	3627	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 30. This action is FINAL . 2b) ☑ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1-17,19 and 20 is/are pending in the 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-17,19 and 20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are pending in the subjected to by the Examination of the drawing(s) filed on is/are pending in the subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to subjected t	awn from consideration. /or election requirement.	Fyaminer	
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Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat fority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Applicant's correspondence received on 1/30/09 is acknowledged. Claims 1-17, 19, 20 are presented for examination. Claim 18 is cancelled.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1–7, 9-12, 14, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidman et al. (US 6671358 A1), as supported by the provisional (60/286309), in view of Johnson, Jr. (6,185,307 B1), in further view of Atalla (4,268,715).

Re claim 1, Seidman et al. disclose a system for securing a Radio Frequency (RF) transaction comprising: a RADIO FREQUENCY IDENTIFICATION (RFID) transaction device operable to send an RF transmission (See e.g. col. 2, lines 36-42).

Seidman et al. do not explicitly disclose a system comprising the transaction device including a database for storing a transaction device identifier and a transaction device authentication tag, wherein the transaction device identifier is different from the transaction device authentication tag; a transaction device random number generator for generating a transaction device random number, a transmitter operable to transmit the transaction device identifier, the transaction device

authentication tag, and the transaction device random number; wherein the transaction device is validated based at least in part on both the transaction device identifier and the transaction device authentication tag, both having been received from the RFID transaction device; and wherein the transaction device random number is used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the RFID transaction device.

Page 3

However, Johnson JR. discloses a system comprising the transaction device including a database for storing a transaction device identifier and a transaction device authentication tag, wherein the transaction device identifier is different from the transaction device authentication tag (See e.g. col. 9, lines 1-4); a transaction device random number generator for generating a transaction device random number (See e.g. col. 10, lines 38-41), a transmitter (transmitter 106) operable to transmit the transaction device identifier, the transaction device authentication tag, and the transaction device random number (See e.g. col. 6, lines 33-43); wherein the transaction device is validated based at least in part on both the transaction device identifier and the transaction device authentication tag, both having been received from the RFID transaction device (See e.g. col. 24, lines 44-49 – the code is transmitted to the host 300 to authenticate the tag. Each tag has a different authentication code, which is generated from the tag ID).

Art Unit: 3627

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify Seidman et al., and include the steps comprising a transaction device random number generator for generating a transaction device random number, a transmitter operable to transmit the transaction device identifier, the transaction device authentication tag, and the transaction device random number; wherein the transaction device is validated based at least in part on both the transaction device identifier and the transaction device authentication tag, both having been received from the RFID transaction device; as taught by Johnson JR., in order to further secure transactions and prevent unauthorized interception of valuable information.

Seidman et al., disclose an RFID transaction device. Seidman et al., in view of Johnson JR. do not explicitly disclose the steps wherein the transaction device random number is used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the RFID transaction device.

However, Atalla discloses the steps and wherein the transaction device random number is used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the transaction device (see e.g. col. 4, lines 65-67; col. 5, lines 47-54 where, during a

Art Unit: 3627

transaction, a decryption module at the processing station decrypts an encrypted message sent by a user device using a transmitted random number).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify Seidman et al., in view of Johnson JR, and include the steps comprising a transaction device random number used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the transaction device, as taught by Atalla, in order to provide secure data transmission, via a multilevel encryption, during the authentication of the transaction.

Re claim 2, Seidman et al. disclose a system wherein further comprising: a RFID reader in communication with said transaction device; a merchant Point of Sale (POS) device in communication with said RFID reader (See e.g. col. 2, lines 43-47); and an account authorizing agent in communication with said merchant POS (See e.g. col. 17, lines 9-12).

Re claims 3, 4, Seidman et al. disclose a system wherein said RFID reader comprises: a reader random number generator for producing a reader random number a system wherein said RFID reader further comprises: a processor in

communication with said reader random number generator; and a system wherein a reader database for storing a RFID reader identifier (See e.g. col. 13, lines 17-25);

Re claim 5, Seidman et al. disclose a system wherein said transaction device random number generator is operable to provide said transaction device random number to said RFID reader, said reader operable to provide said transaction device random number to said POS, said POS configured to provide the transaction device random number to said account authorizing agent system (See e.g. col.13, lines 17-25).

Re claims 6, Seidman et al., disclose system wherein said RFID reader is operable to provide said transaction device identifier to said merchant POS (See e.g. col. 22, lines 51-59).

Re claims 7 and 12, it would have been a design choice, at the time of the invention, to have at least one of said transaction device identifier and said transaction device random number provided to said RFID reader in track 1/track 2 International Standards Setting Organization format, in order to synchronize the system.

Re claim 9, Seidman et al. do not explicitly disclose a system wherein said authorizing agent system is configured to validate said transaction device identifier in

accordance with said transaction device random number (See e.g. col. 18, lines 42-51).

However, Johnson JR. discloses a system wherein said authorizing agent system is configured to validate said transaction device identifier in accordance with said transaction device random number (See e.g. col. 11, lines 22-35).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify Seidman et al., and include the steps wherein said authorizing agent system is configured to validate said transaction device identifier in accordance with said transaction device random number, as taught by Johnson JR., in order to authenticate the device.

Re claim 10, Seidman et al. disclose a system wherein said RFID reader random number generator is operable to provide said reader random number to said POS, said POS configured to provide at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number to said account authorizing agent system (See e.g. col. 22, lines 48-59, col. 17, lines 9-12).

Re claims 11 and 14, Seidman et al. disclose a system wherein said RFID reader is operable to provide at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number to said merchant POS; a system wherein said authorizing agent system is configured to validate at least one of said transaction device and said RFID reader, in accordance

with said at least one of said transaction device random number, transaction device identifier, and reader RFID reader random number transaction device random number (See e.g. col. 17, lines 9-42).

Re claims 19 and 20, Seidman et al., do not explicitly disclose a method wherein the transaction device random number is converted to a validating code and then used to validate the transaction device; a new transaction device random number is generated for each transaction.

However, Johnson JR. discloses a method wherein the transaction device random number is converted to a validating code and then used to validate the transaction device (see e.g. col. 11, lines 33-35-67); a new transaction device random number is generated for each transaction (see e.g. col. 13, lines 65-67).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention to modify Seidman et al., and include a method wherein the transaction device random number is converted to a validating code and then used to validate the transaction device; a new transaction device random number is generated for each transaction, as taught by Johnson JR., in order to alter the authentication process in such a way that only authorized devices can communicate with each other.

3. Claims 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidman et al. (US 6671358 A1), as supported by the provisional (60/286309), in

view of Johnson, Jr. (6,185,307 B1), in further view of Atalla (4,268,715), in further view of Official Notice.

Re claims 8 and 13, Seidman et al., in view of Johnson JR. do not explicitly disclose a system wherein at least one of said transaction device identifier and said transaction device random number is provided to said RFID reader in POS predefined format.

However the Examiner takes Official Notice that it is well known in the art that a recognizable format should be provided to a receiving system in a network.

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention to include a transaction device identifier and wherein said transaction device random number is provided to said RFID reader in POS predefined format, in order to synchronize the system.

4. Claims 15 and 16 are rejected under 35 U.S.C. 102(e) as being unpatentable by Johnson, Jr. (6,185,307 B1), in further view of Atalla (4,268,715).

Re claim 15, Johnson JR. discloses a method for securing a transaction comprising the steps of: providing a transaction device (tag unit 100), the transaction device including a random number generator (see e.g. col. 13, lines 44-46), wherein the transaction device is associated with a transaction (See e.g. col. 10, lines 61-65); device identifier and a transaction device authentication tag, the transaction device identifier being different from the transaction device authentication tag generating a transaction device random number (See e.g. col. 10, lines 38-41); and transmitting the

transaction device identifier, the transaction device authentication tag, and the transaction device random number (See e.g. col. 6, lines 33-43): and validating the transaction device based at least in part on both the transaction device identifier and the transaction device authentication tag, both having been received from the transaction device (See e.g. col. 24, lines 44-49),

Johnson JR. do not explicitly disclose wherein the transaction device random number is used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the transaction device.

However, Atalla discloses wherein the transaction device random number is used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the transaction device (See e.g. col. 51, lines 47-54).

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify Johnson JR, and include the steps comprising a transaction device random number used to lookup a previously stored decryption key for decrypting at least one of the transaction device identifier and the transaction device authentication tag, the transaction device random number having been received from the transaction device, as taught by Atalla, in order to provide secure

data transmission, via a multilevel encryption, during the authentication of the transaction.

Page 11

Re claims 16, Johnson et al. disclose a method further including providing a transaction device reader, the reader including a reader random number generator; providing a reader random number generator for generating a reader random number; and validating at least one of the transaction device and the reader in accordance with at least one of the transaction device random number and the reader random number (See e.g. col. 10, line 65-67, col.11, lines 13, 11-14, 28-35).

- 5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson, Jr. (6,185,307 B1), in view of Seidman et al. (US 6671358 A1), as supported by the provisional (60/286309), in further view of Atalla (4,268,715).
- 6. Re claim 17, Johnson Jr. discloses a method for securing a transaction comprising the steps of: providing a transaction device (tag unit 100), the transaction device including a random number generator (see e.g. col. 13, lines 44-46), wherein the transaction device is associated with a transaction (See e.g. col. 10, lines 61-65); device identifier and a transaction device authentication tag, the transaction device identifier being different from the transaction device authentication tag generating a transaction device random number (See e.g. col. 10, lines 38-41); and transmitting, from the transaction device, the transaction device identifier, the transaction device

device reader; transmitting, from the transaction device reader, the transaction device

identifier, the transaction device authentication tag, the transaction device random

number, and the transaction device authentication tag to an account issuer associated

with the transaction device (host 300) (See e.g. col. 10, lines 41-44);

Johnson JR. does not explicitly disclose validating, at the account issuer, the

transaction device (credit/debit card) based at least in part on both the transaction

device identifier (credit/debit card number) and the transaction device authentication tag

(code 245), both having been received from the transaction device.

However, Seidman et al. disclose validating, at the account issuer, the

transaction device (credit/debit card) based at least in part on both the transaction

device identifier (credit/debit card number) and the transaction device authentication tag

(code 245), both having been received from the transaction device (See e.g. col. 18,

lines 13-31).

Therefore, it would have been obvious to a person of ordinary skill in the art, at

the time of the invention to include the steps of validating, at the account issuer, the

transaction device based at least in part on both the transaction device identifier and the

transaction device authentication tag, both having been received from the transaction

device, as taught by Seidman et al., in order to verify the validity of the transaction

device.

Johnson JR., in view of Seidman et al. do not explicitly disclose the limitation wherein the transaction device random number is used to decrypt at least one of the transaction device reader authentication tag.

However, Atalla discloses such limitation in col. 5, lines 47-54.

Therefore, it would have been obvious to a person of ordinary skill in the art, at the time of the invention to modify Johnson JR., in view of Seidman et al., and include the steps wherein the transaction device random number is used to decrypt at least one of the transaction device identifier, and the transaction device authentication tag, as taught by Atalla, in order to provide secure data transmission, via a multilevel encryption, during the authentication of the transaction.

Response to Arguments

7. Applicant's arguments with respect to the previous claims have been considered, but are most in view of the new grounds of rejection. The previous Non-Final Rejection is withdrawn. As disclosed in the new rejection, Applicant's limitation wherein the transaction device random number is used to lookup a previously stored description key is anticipated by Atalla.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luna Champagne whose telephone number is (571) 272-7177. The examiner can normally be reached on Monday - Friday 8:30 - 5:00.

Application/Control Number: 10/708,547 Page 14

Art Unit: 3627

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Florian Zeender can be reached on (571) 272-6790. The fax

phone number for the organization where this application or proceeding is assigned

is 571-273-8300.

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272-1000.

/Luna Champagne/ Examiner, Art Unit 3627

April 24, 2009

/F. Ryan Zeender/

Supervisory Patent Examiner, Art Unit 3627